# Konstantinos Oikonomou

## SOFTWARE ENGINEER





# 🖶 WORK EXPERIENCE

#### **Ubitech LTD**

o7/2020 – Present Computing Systems, Software & Services Research Group Athens, Greece

#### Full Stack & Research Software Engineer

My responsibilities span across multiple European Projects that the company undertakes, as well as the company's commercial solutions:

- Develop and integrate cloud-based solutions for Authentication and Authorization for scalable systems, implement encryption algorithms.
- Develop high-performance and scalable Java applications to satisfy the requirements of European Projects WPs and tasks.
- CI/CD via Git all the generated code and containerize and deploy applications using Docker and Openstack, handle project servers maintenance and update.
- Participate in the interviewing and hiring process of new team members and handle their seamless onboarding to the stack and the team's code standards.
- Involvement in the effort to improve team's agility and remote efficiency via task distribution, enhanced communication methods and mentoring new members.



Java, Spring Framework, Quarkus, JPA, JPBC, Vue, Docker, Openstack, Git, SQL, Mongo, Hibernate, Keycloak, Kafka, Maven, Thymeleaf.

#### **Hellenic Greek Army**

11/2019 – 07-2020 Hellenic Army Headquarters Athens, Greece

#### Full Stack Developer

Based on my qualifications, I was assigned to KEPYES (Hellenic Army Support Center for Information Technology), where I worked on many critical Java projects. My key responsibilities were:

- Develop, test and refactor old monolithic code into new, sustainable and clean code to improve performance and avoid bad practices and non-scalability.
- Redesign query logic and implement multitier architecture to reduce the average execution time up to 80% for recurring tasks.



Java, J2EE, JDBC, Primefaces, JSF, SQL, Hibernate, Maven, Wildfly, Jenkins, Git, JUnit.

#### **EU Horizon 2020 Argo Project**

o1/2018 - 09/2018 Department of Electrical and Computer Engineering Patras, Greece

#### **Software Engineer**

The project's aim was the optimization of the WCET (Worst Case Execution Time) of mapping and task scheduling for model-based applications in multi-core heterogeneous parallel systems. My key responsibilities were:

- •Academic research to determine algorithm characteristics and applicability.
- $\bullet$  Implementation and performance testing of a genetic metaheuristic task scheduling algorithm in Java.



Java, J2EE, SQL, Maven, Git, JUnit.

#### **Think Silicon**

09/2016 - 01/2018 Patras Science Park Patras, Greece

#### **Undergraduate Software Engineer**

In order to apply and further develop my thesis I worked on developing and evaluating a backlight compensation algorithm for low power LCD displays. The final algorithm achieved 30% power reduction and was implemented on the company's commercial display controller "Nema DC".

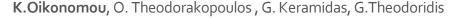
Technologies used:

C++, VHDL, Verilog, Python, Arduino Scripting Language.



28th International Symposium On Power & Timing Modeling, Optimization & Simulation, held in Platja d'Aro, Spain

6<sup>th</sup> International Congress On Information & Communication Technology (ICICT), held in London, UK



Title: Backlight Compensation Algorithms to Improve Power Consumption in LED-LCD Displays

K.Oikonomou, K. Steinhöfel, S. Menzel

Title: A Machine Learning Model for Predicting Fetal Haemoglobin Levels in Sickle Cell Disease Patients

# EDUCATION

#### King's College London

09/2018 - 09/2019 Grade: Pass with Distinction (8.2/10)

**Thesis:** "A Machine Learning Model for Predicting Fetal Haemoglobin Levels in Sickle Cell Disease Patients" | Advisor: Prof. Kathleen Steinhofel

#### **University of Patras**

09/2012 - 01/2018 Grade: Pass with Distinction (7.22/10)

### **Electrical & Computer Engineering Diploma**

Thesis: "Optimization Algorithms for Power Consumption on LCD Displays" Advisor: Prof. Georgios Theodoridis The Diploma is equivalent to 300 ECTS credits (Bachelor plus Master's)







Advanced Software Engineering with Management MsC



















Full stack web development

LANGUAGES Greek: Mother Tongue

- Efficient REST API design and consumption
- Apache Kafka, Keycloak
- Vue, HTML/CSS, JSF, Primefaces, Thymeleaf
- Java, JUnit, Git, Maven, Docker
- Development, testing & deployment SDLC phases
- Artificial Intelligence
- Data structures and algorithm theory

English : C2

- OOP with design patterns
- Spring Framework, Quarkus, JPA, SQL, Mongo, JPBC, Balana
- Technical writing
- Research and development
- German: B2



**Blogging:** Analyst in fantasy basketball site 'Razzball' under the alias 'Kostas' since 2017. My weekly articles focus on analyzing advanced statistics and predicting real-life player performance based on data models.

Link: https://basketball.razzball.com/author/kostas Music, Basketball, Competitive Debating, Writing